

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

ORDER NO. 81-59

WASTEWATER RECLAMATION REQUIREMENTS FOR:

CITY OF MOUNTAIN VIEW, SANTA CLARA VALLEY  
WATER DISTRICT, AND THE CITY OF PALO ALTO,  
SANTA CLARA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter Board) finds that:

1. The City of Mountain View, hereinafter User, Santa Clara Valley Water District and the City of Palo Alto, (hereinafter Producers) filed a Report of Waste Discharge dated August 6, 1981.
2. The User proposes to initially divert 1.3 million gallons per day of tertiary effluent treated by the Palo Alto Regional Water Quality Control Plant and then further treated by the Santa Clara Valley Water District's Reclamation Facility in Palo Alto for the purpose of golf course and park irrigation by means of fixed sprinkler systems at Mountain View Shoreline Regional Park. Future diversion may be up to 2.3 million gallons per day. The irrigation master plan for the Park (and the disposal area) is shown on Attachment "A", which is hereby made part of this Order.
3. The User and Producers will negotiate an agreement defining responsibilities for treatment and use of reclaimed wastewater.
4. Section 13523 of the California Water Code provides that a regional board, after consulting with and receiving the recommendations of the State Department of Public Health, and if it determines such action to be necessary to protect the public health, safety, or welfare, shall prescribe water reclamation requirements for water which is used or proposed to be used as reclaimed water. The use of reclaimed water for the purposes specified in Finding 2, could affect the public health, safety, or welfare, and requirements for those uses are therefore necessary in accordance with the Water Code.
5. The Board adopted a Water Quality Control Plan for San Francisco Bay Basin in April 1975. The water quality objectives for reclaimed wastewater, as set forth in the Basin Plan, specify those limits prescribed in Title 17, Section 8025 through 8050, California Administrative Code. These objectives have been superseded by Title 22, Sections 60301 - 60357, California Administrative Code (statewide wastewater reclamation criteria).

These wastewater reclamation requirements are in conformance with the statewide wastewater reclamation criteria established by the State Department of Health.

6. The Basin Plan identifies the beneficial uses of the underlying ground waters as:

Industrial process water supply  
Municipal supply  
Agricultural uses

7. The proposed use of reclaimed wastewater involves a minor alteration to land and as such is exempt from the provisions of the Environmental Quality Act of 1970 as a Class 4 exemption pursuant to Section 15104 of the California Administrative Code (State EIR Guidelines). The project will not have a significant effect on the environment.
8. This Regional Board has notified the User and Producers, and interested agencies and persons of its intent to prescribe water reclamation requirements for the proposed uses.
9. This Board at a public meeting heard and considered all comments pertaining to this reuse.

IT IS HEREBY ORDERED, that the User and the Producers, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. Reclaimed Wastewater Use Specifications

1. The Producers shall assure that the treatment of reclaimed water shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The Producers shall assure that the reclaimed water shall be at all times an adequately disinfected, oxidized, coagulated, clarified, filtered wastewater or a wastewater treated by a sequence of unit processes that will assure to the satisfaction of the Executive Officer an equivalent level of treatment and reliability (e.g., Pamona Virus Study recommendation).
3. The Producers shall assure that the reclaimed water from its facility shall not exceed the following limits:

5-day BOD	20 mg/l max., 10 mg/l 30 day avg.
Turbidity	2 NTU avg., less than 5 NTU 95% of 24 hour period.
Dissolved Oxygen	1.0 mg/l minimum
Dissolved Sulfides	0.1 mg/l maximum
Coliform Organisms	Median MPN shall not exceed 2.2 coliform organisms per 100 ml of

sample at some point in the treatment process. The median value will be determined from the last seven (7) analyses. The number of coliform organisms shall not exceed 23 MPN/100 ml in any sample.

4. The User shall assure that all above ground equipment, including pumps, piping and valves, etc. which may at any time contain waste shall be adequately and clearly identified with warning signs and user shall make all necessary provisions, in addition, to inform the public that the liquid contained is sewage and is unfit for human consumption.

B. Reclaimed Wastewater Use Prohibitions

The User shall comply with the following restrictions for their use of reclaimed water:

1. The distribution or reuse of reclaimed wastewater shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. No reclaimed wastewater shall be applied to the disposal area during periods of rainfall such that runoff occurs or when soils are saturated.
3. No reclaimed wastewater used for irrigation shall be allowed to escape to areas outside the Shoreline Regional Park by surface flow or airborne spray, except for minor quantities of surface flow, occurring as a result of normal irrigation practice.
4. Wastewater shall not be applied to park or golf course in such a manner or at such times as to expose golfers, picnickers or other individuals to contact with airborne spray droplets.
5. Discharge of waste from the irrigation storage ponds, other than to the irrigation system or to a municipal sewerage system, is prohibited.

C. Provisions

1. This Order includes all items of the attached "Requirements of Design for Reclamation Facilities" dated October 1, 1975.
2. The User shall be responsible to file with the Regional Board technical reports on self-monitoring work performed according to detailed specifications as directed by the Executive Officer.
3. This Board considers the User to be the agency primarily responsible for this wastewater reuse. Therefore, in the administration and enforcement of this Order, this Board will first pursue its administrative and/or legal remedies with the User. If, however, the Board finds that the User does not have the ability or willingness to take appropriate action, or if special, unusual circumstances arise that indicate that direct action should be taken against the Producer this Board may pursue appropriate action against the Producer.

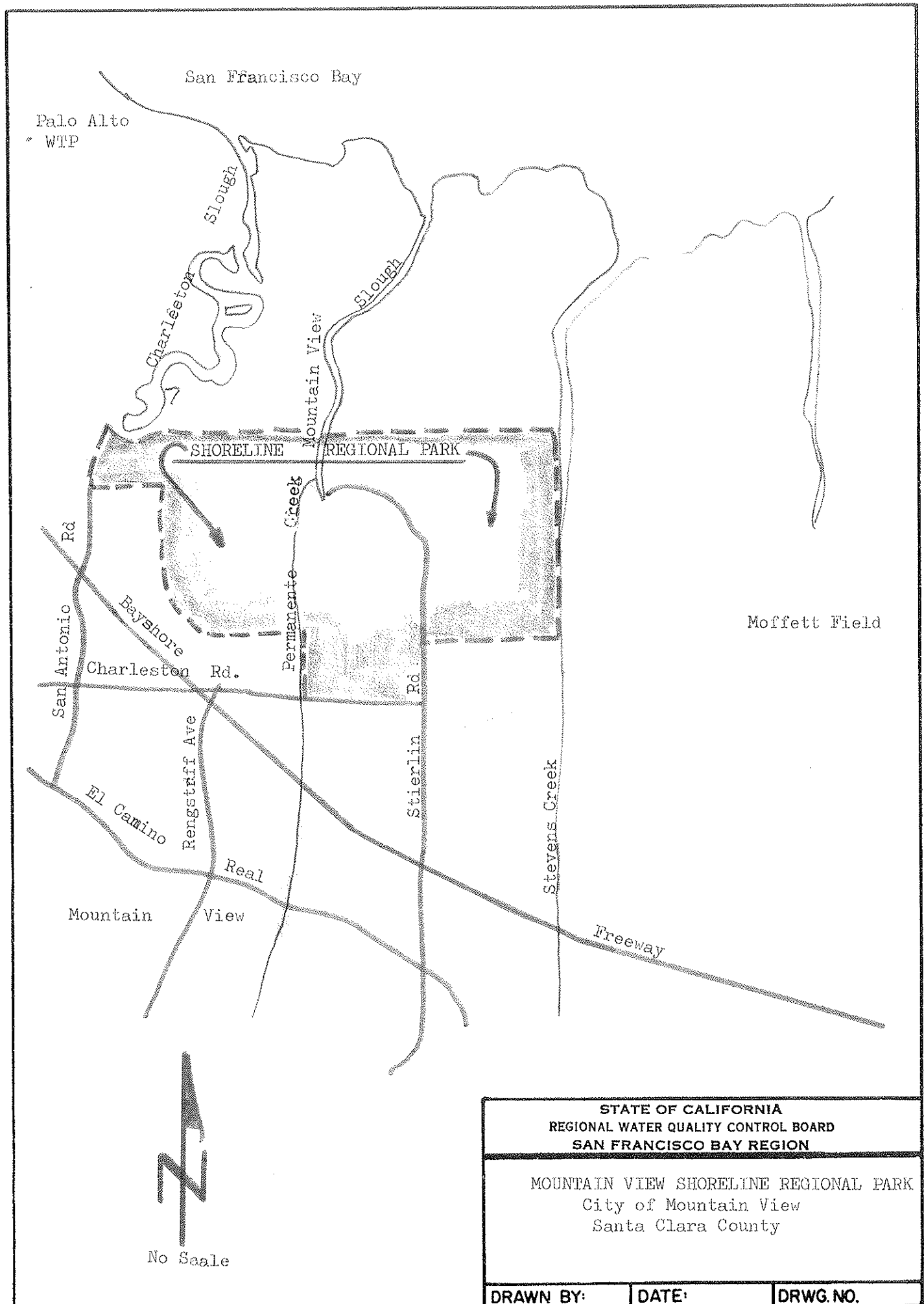
4. The User shall submit to the Board a copy of the responsibility agreement as described in Finding 3 not later than 90 days prior to wastewater reuse.
5. At least ninety (90) days prior to the construction of the additional treatment and/or irrigation system the User shall submit a report, satisfactory to the Executive Officer, describing the irrigation system design and operation to meet these requirements, to minimize any public contact with reclaimed water, and to prevent possible cross connections to potable water supply systems. The User shall consider and include in the preparation of the report the attached CSDHS "Guidelines for Use of Reclaimed Water for Landscape Irrigation", "Guidelines for Use of Reclaimed Water for Impoundment", and "Guidelines for Worker Protection at Water Reclamation Use Areas."
6. The User and Producers shall permit the Board or its authorized representative in accordance with California Water Code Section 13267(c):
  - a. Entry upon premises in which an effluent source is located or in which any required records are kept.
  - b. Access to copy any records required to be kept under terms and conditions of this Order.
  - c. Inspection of any monitoring equipment or method required by this Order.
  - d. Sampling of any discharge or reclaimed water.
7. The User and Producers shall maintain in good working order and operate as efficiently as possible any facility or control system installed to achieve compliance with the water reclamation requirements.
8. The User and Producers jointly shall file with the Board a report on waste discharge at least one-hundred and eighty (180) days before making any material change or proposed change in the character, location, or volume of reuse.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on November 18, 1981.

Attachments:

- A. Map (2)
- B. Requirements of Design for Reclamation Facilities dated 10/1/75
- C. CSDHS Guidelines (3)
- D. Self-Monitoring Program

FRED H. DIERKER  
Executive Officer





CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM  
FOR

SHORELINE REGIONAL PARK, CITY OF MOUNTAIN

VIEW, CITY OF PALO ALTO, SANTA CLARA VALLEY

WATER DISTRICT, SANTA CLARA COUNTY

ORDER NO. 81-59

CONSISTS OF

PART A

AND

PART B

## PART B

### I. DESCRIPTION OF SAMPLING STATIONS AND SCHEDULE OF SAMPLING, ANALYSES AND OBSERVATIONS

Analyses, observations, and examinations shall be performed according to the specifications shown in Table I.

#### A. EFFLUENT

<u>Station</u>	<u>Description</u>
E-001	At any point in the treatment process from the reclamation facilities between the first point of reuse or storage and the point at which all waste tributary to that outfall is present.

#### B. LAND OBSERVATIONS

<u>Station</u>	<u>Description</u>
P-1 thru P-'n'	Located along the periphery of the irrigation areas at equidistant intervals, not to exceed 1000 feet.

#### C. IMPOUNDMENT FACILITIES

<u>Station</u>	<u>Description</u>
RB, RC, RD, RE	At one point on each of the periphery of the ponds containing reclaimed wastewater (lakes B, C, D, E respectively).

(A sketch showing the locations of these stations shall accompany each report.)

#### D. MISCELLANEOUS REPORTING

The discharger shall submit with the first required monitoring report, adequate documentation that all equipment is adequately marked as required. Such documentation shall include, but not be limited to photographs and certification of compliance.

### II. MODIFICATION OF PART "A" DATED JANUARY 1978

A. Exclusions: Paragraphs D1, D3, F3e, F3f and F3g.

I, Fred H. Dierker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No.



2. Is effective on the date shown below.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger, and revisions will be ordered by the Executive Officer.

FRED H. DIERKER  
Executive Officer

Attachments  
Table 1 (2 pages)

Effective Date \_\_\_\_\_

TABLE I (2)  
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	E-001(2)*		All P Stations		All R Stations														
TYPE OF SAMPLE	Grab	C-24	Observation		Grab														
Flow Rate (mgd)	D																		
BOD, 5-day, 20° C, or COD (mg/l & kg/day)		W																	
Chlorine Residual & Dosage (mg/l & kg/day)																			
Settleable Matter (ml/1-hr. & cu. ft./day)	2/M																		
Total Suspended Matter (mg/l & kg/day)		2/M																	
Oil & Grease (mg/l & kg/day)		2/M																	
Coliform (Total) (MPN/100 ml) per req't	5/W																		
Fish Toxicity, 96-hr. TL <sub>50</sub> % Survival in undiluted waste																			
Ammonia Nitrogen (mg/l & kg/day)																			
Nitrate Nitrogen (mg/l & kg/day)																			
Nitrite Nitrogen (mg/l & kg/day)																			
Total Organic Nitrogen (mg/l & kg/day)																			
Total Phosphate (mg/l & kg/day)																			
Turbidity (Jackson Turbidity Units)																			
pH (units)	2/M																		
Dissolved Oxygen (mg/l and % Saturation)	W					M													
Temperature (°C)																			
Apparent Color (color units)																			
Secchi Disc (inches)																			
Sulfides (if DO < 5.0 mg/l) Total & Dissolved (mg/l)	W					M													
Chromium, Total (mg/l & kg/day)																			
Copper (mg/l & kg/day)																			
Cyanide (mg/l & kg/day)																			
Silver (mg/l & kg/day)																			
Lead (mg/l & kg/day)																			

**TABLE I (continued)**  
**SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS**

Sampling Station	E-001		All P Stations		All R Stations									
TYPE OF SAMPLE	Grab	C-24	Observation		Grab									
Mercury (mg/l & kg/day)														
Nickel (mg/l & kg/day)														
Zinc (mg/l & kg/day)														
PHENOLIC COMPOUNDS (mg/l & kg/day)														
All Applicable Standard Observations			W(1)		M									
Bottom Sediment Analyses and Observations														
Total Identifiable Chlorinated Hydrocarbons (mg/l & kg/day)														

\*Appropriate data taken at Palo Alto STP or SCVWD STP may be utilized

LEGEND FOR TABLE

TYPES OF SAMPLES

G = grab sample  
 C-24 = composite sample - 24-hour  
 C-X = composite sample - X hours  
       (used when discharge does not  
       continue for 24-hour period)  
 Cont = continuous sampling  
 DI = depth-integrated sample  
 BS = bottom sediment sample  
 O = observation

TYPES OF STATIONS

I = intake and/or water supply stations  
 A = treatment facility influent stations  
 E = waste effluent stations  
 C = receiving water stations  
 P = treatment facilities perimeter stations  
 L = basin and/or pond levee stations  
 B = bottom sediment stations  
 G = groundwater stations

FREQUENCY OF SAMPLING

E = each occurrence  
 H = once each hour  
 D = once each day  
 W = once each week  
 M = once each month  
 Y = once each year

2/H = twice per hour  
 2/W = 2 days per week  
 5/W = 5 days per week  
 2/M = 2 days per month  
 2/Y = once in March and  
       once in September  
 Q = quarterly, once in  
       March, June, Sept.  
       and December

2H = every 2 hours  
 2D = every 2 days  
 2W = every 2 weeks  
 3M = every 3 months  
 Cont = continuous

(1) Observations shall include evidence of seepage outside irrigation area.

(2) Effluent samples are required to be taken only on days any reclaimed wastewater is being diverted for reuse.

(3) COD only for G stations.